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International application No.

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A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ F16C33/78, 33/80, 19/18		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system follow Int.Cl ⁷ F16C33/78-33/80, 19/18		
Documentation searched other than minimum documentation to	the extent that such documents ar	e included in the fields searched
Kokai Jitsuyo Shinan Koho 1971-2003	Toroku Jitsuyo Shir Jitsuyo Shinan Toro	nan Koho 1994–2003 oku Koho 1996–2003
Electronic data base consulted during the international search (na	ame of data base and, where pract	icable, search terms used)
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category* Citation of document, with indication, where A JP 11-13771 A (NSK 1.td.)	appropriate, of the relevant passag	
A JP 11-13771 A (NSK Ltd.), 22 January, 1999 (22.01.99), (Family: none)	,	1-5
A EP 816699 A1 (KOYO SEIKO CO 07 January, 1998 (07.01.98), & JP 10-26143 A & U	o., LTD. et al.), s 5860748 A	1-5
A JP 2001-200857 A (NSK Ltd.) 27 July, 2001 (27.07.01), (Family: none)		1-5
A JP 10-339329 A (NSK Ltd.), 22 December, 1998 (22.12.98) (Family: none)	,	1-5
Further documents are listed in the continuation of Box C.	Comment for the	
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		vance; the claimed invention cannot be rentive step when the document is other such documents, such
than the priority date claimed	& document member of the sar	me patent family
Date of the actual completion of the international search 22 September, 2003 (22.09.03) Date of mailing of the international search report 07 October, 2003 (07.10.03)		
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Japanese Patent Office		
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